

REMARKS

Claim 1 of the present application requires “an elongate electrical conductor coupled magnetically with at least one thin layer of magnetic material extending along at least a part of said conductor juxtaposed with the conductor,” and “the aspect ratio of the thickness of said layer of magnetic material to its lateral dimensions is between 0.01 and 0.5.” (emphasis added).

The Examiner rejects claims 1-3, 9, 10 14-16 under 35 USC 102(b) as being anticipated by EP0823714B1 Yamazawa *et al.* Specifically, the Examiner states that claim 1 of Yamazawa *et al.* discloses “the aspect ratio of the thickness of said layer of magnetic material to its lateral dimensions is between $0.035 \leq [t/w] \leq 0.35$, which is between 0.1 and 0.5.” (emphasis added). However, Applicant respectfully draws the Examiner’s attention to the exact wording of claim 1 of Yamazawa *et al.*:

“A thin magnetic element comprising a coil pattern formed on at least one side of a substrate and a thin magnetic film formed on the coil pattern, wherein:

said thin magnetic film is formed to a thickness of 0.5 mm or greater but 8 mm or smaller;

and at least one of the following conditions is satisfied;

assuming that the thickness and width of one winding of the coil are “t” and “w”, respectively, an aspect ratio t/w of the coil satisfies the relationship of $0.035 \leq t/w \leq 0.35$,” (emphasis added)

At paragraph 0011, Yamazawa *et al.* teach that with this aspect ratio of the coil “a temperature rise of the coil conductor can be suppressed by setting the aspect ratio of the coil conductor within the above-described range;”

Applicant respectfully submits that, not only this passage of Yamazawa *et al.* does not teach choosing any particular aspect ratio for the magnetic material, let alone the specific claimed aspect ratio, but the reason given (temperature rise) for choosing an aspect ratio of a winding of the coil in the cited prior art points away from choosing a particular aspect ratio for the magnetic material.

Additionally, the aspect ratio of the magnetic material is never mentioned in Yamazawa *et al.* In paragraph 0010 and elsewhere, the thickness of the magnetic material is stated to be between 0.5μm and 8μm. In paragraph 0046, an example is

given of the width of the magnetic material at 12 cm, with a thickness of 3 μ m. Calculation shows that the aspect ratio of the magnetic material would then be $2.5 * 10^{-5}$ (0.000025). This is far outside the range claimed in present claim 1 of 0.01 to 0.5.

Advantages gained by the choice of aspect ratio of the present invention as claimed in present claim 1 are given in the passage bridging pages 5 and 6 of the specification. It is submitted that these advantages are not foreshadowed by Yamazawa *et al.*, which teaches away from these considerations.

The Examiner does not contend that any other of the prior art cited teaches the claimed aspect ratio of the magnetic material. Accordingly, it is submitted that claim 1 is novel and non-obvious in view of the prior art cited and is allowable. Claims 2 to 16 depend from claim 1 and are submitted to be allowable at least for this reason.

Although Applicants may disagree with statements made by the Examiner in reference to the claims and the cited references, Applicants are not discussing all these statements in the current Office Action since reasons for the patentability of each pending claim are provided without addressing these statements. Therefore, Applicants reserve the right to address these statements at a later time if necessary.

No amendment made herein is related to the statutory requirements of patentability unless expressly stated herein. Further, no amendment herein is made for the purpose of narrowing the scope of any claim, unless Applicants have argued herein that such amendment was made to distinguish over a particular reference or combination of references.


If Applicant has overlooked any additional fees, or if any overpayment has been made, the Commissioner is hereby authorized to credit or debit Deposit Account 503079, Freescale Semiconductor, Inc.

Respectfully submitted,

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